

**BIOMEDICAL ELECTRODE WITH CURRENT SPREADING LAYER**

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**ABSTRACT OF THE DISCLOSURE**

A biomedical electrode is disclosed that distributes current over the entire surface of a conductive polymeric sheet using a current spreading layer located on the upper surface of the conductive polymeric sheet (i.e., the surface facing away from the patient).

10 The conductive polymeric sheet includes a conductive undercoating on its lower surface (i.e., the surface facing the patient). An electrolyte layer (e.g., a hydrogel pressure sensitive adhesive) is located on the bottom of the biomedical electrode, with the conductive undercoating located between the electrolyte layer and the conductive polymeric sheet. The biomedical electrode is in electrical communication with the  
15 patient's skin through the electrolyte layer.

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